



California Regional Water Quality Control Board

Los Angeles Region



Linda S. Adams
Cal/EPA Secretary

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Arnold Schwarzenegger
Governor

March 4, 2008

Jennifer L. Wiley
Boeing Corporate Real Estate
4501 Conant Street
Long Beach, CA 90808

APPROVAL LOW FLOW PURGING AND SAMPLING METHOD, BOEING CORPORATE REAL ESTATE, FORMER C-6 FACILITY, 19503 SOUTH NORMANDIE AVENUE, LOS ANGELES (SLIC NO. 410, SITE ID NO. 1846000)

Dear Ms. Wiley

We have received the "Results of Low-Flow (Minimal Drawdown) Groundwater Sampling Method Evaluation" (Report) dated January 15, 2008, prepared by AVOCET Environmental. Boeing Corporate Real Estate (Boeing) is conducting site-wide groundwater monitoring at the former C-6 Facility (the Site). The groundwater monitoring program is designed to monitor the nature and extent of groundwater contamination and characteristics of groundwater flow at the subject site.

The evaluation was conducted to identify a suitable sampling method that will be efficient and reliable for long term monitoring, produce representative, repeatable results consistent with historical results, be compatible with site conditions, and generate smaller volumes of purge water. The Report provided site-specific data to evaluate the low-flow sampling method for potential future use at the Site. The results indicated a good correlation between the traditional sampling method and the low-flow sampling method. Boeing is proposing to incorporate low-flow purging and sampling procedures into the standard operating procedures (SOPs) for collecting groundwater samples at the Site. Based upon the information submitted, we hereby concur with Boeing's proposal to use low-flow purging and sampling method provided the following conditions are met:

1. The pump intake shall be placed within the contaminated zone within the screened interval.
2. Rates for purging and sampling shall be between 100-500 milliliter per minute (ml/min). Close monitoring of the water level in the well shall be performed during purging to ensure that little or no drawdown or mixing of stagnant and formation waters occurs.
3. Physical properties shall be monitored frequently to check for stability while the well is being purged. These include dissolved oxygen, turbidity, specific conductance, pH, temperature, and reduction-oxidation potential.
4. Samples for laboratory analysis of any volatile organic compounds shall be obtained from the pump discharge using a flow rate of 100 ml/min. Samples for laboratory analysis of non-volatile organic compounds can be obtained at a flow rate between 100-500 ml/min.

California Environmental Protection Agency



Our mission is to preserve and enhance the quality of California's water resources for the benefit of present and future generations.

BOE-C6-0056635

Ms. Wiley
Boeing Corporate Real Estate
Former C-6 Facility

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March 4, 2008

If you have any questions please call me at (213) 576-6738 or email at atownsend@waterboards.ca.gov.

Sincerely,



Ana M. Townsend
Water Resources Control Engineer
Site Cleanup I Unit

cc: Jeffrey Dhont, United States Environmental Protection Agency, Region 9
Susan Keydel, United States Environmental Protection Agency, Region 9
Mark Stuart, California Department of Water Resources, Watermaster, Central Basin
Robert Scott, Boeing Corporate Real Estate
Michael Rendina, AVOCET Environmental

California Environmental Protection Agency



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